

FOIA Request Puerto Rico SO₂ NAAQS Designation Modeling

Data and information needed:

1. AERMOD input and output files for all simulations (for each area/Power Plant)

1. AERMOD input files (File extensions may include: *.adi, *.apn, *.inp, *.dta, *.ami. Include any external receptor input files, if applicable.)
2. Hourly emissions input files (HOUREMIS files)
3. Spreadsheets, calculations, and/or reference files used for hourly emissions inputs. Some examples include: emissions reports, fuel usages, sulfur content, hours of operation, etc. Include units.
4. Spreadsheets, calculations, and/or reference files used for other inputs (e.g., permits or other information showing coordinate locations, stack parameters [stack exit temperatures, exit velocities, flow rates, stack heights, diameters]). Include units.
5. Terrain files used (AERMAP: NED or DEM files, example file extension: *.tif)
6. AERMOD output files (graphical plot files, summary files, and results output files)

2. Meteorological data (AERMET) input and output files for all simulations (for each area/Power Plant)

1. Raw Meteorological data files for surface data (including NWS, onsite data) and upper air data.
2. For onsite data, include parameters, units, tower location coordinates, audit reports, QA/QC reports, and other appropriate files. Discuss what parameters were included/excluded in the AERMET processing and any justification.
3. For the surface, onsite, and upper air meteorological data used, include any files showing data completeness, and quality of the raw data. Include discussion of the representativeness of meteorological data used in the processing, compared to the meteorological conditions at the modeled facility.
4. Methodology and justification for any data substitutions, missing data procedures, or handling of raw data.
5. AERMET processing files (Stage 1, 2, and 3 input files, message files, report files. File extensions: *.IN*, *.MG*, *.RP*, and all intermediate files and other data relied upon)
6. Surface characteristic calculation files, land use files, and references relied upon regarding surface characteristics
7. AERMET output files (File extensions: *.SFC and *.PFL)

3. Building downwash files for simulations where buildings were used

1. Building downwash input/output files (File extensions: *.PIP, *.PRW, *.SO, *.SUM, *.TAB)
2. References for building dimensions (coordinates, length, width, heights of all buildings)

4. Background concentration data

1. References for background concentration data used (EPA web address, and/or other information), discussion on location of other SO₂ monitors on the island

5. Any documentation supporting the U.S. Environmental Protection Agency's decision to designate parts of Puerto Rico as non-attainment for the sulfur dioxide National Ambient Air Quality Standards.